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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,700	04/04/2007	Michael Rosenbauer	2003P01957WOUS	3472
46726 7590 03/09/2009 BSH HOME APPLIANCES CORPORATION INTELLECTUAL PROPERTY DEPARTMENT 100 BOSCH BOULEVARD			EXAMINER	
			WALDBAUM, SAMUEL A	
NEW BERN, N	= =		ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			03/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/583,700	ROSENBAUER ET AL.		
Office Action Summary	Examiner	Art Unit		
	SAMUEL A. WALDBAUM	1792		
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence address		
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC, FR 1.136(a). In no event, however, may a report. Deriod will apply and will expire SIX (6) MONTI statute, cause the application to become ABA	ATION. ly be timely filed dS from the mailing date of this communication. NDONED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☐ 3) ☐ Since this application is in condition for all closed in accordance with the practice un	This action is non-final. lowance except for formal matte	•		
Disposition of Claims				
4)	hdrawn from consideration.			
Application Papers				
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the contact of the specific state of the specific shape of th	accepted or b) objected to by othe drawing(s) be held in abeyance orrection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	8) Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application		

Application/Control Number: 10/583,700 Page 2

Art Unit: 1792

DETAILED ACTION

Response to Amendment

1. In the reply filed December 29, 2008 the applicant has amended claims 13, 14, 16 and 19, cancelled claim 17 and 21. The previous rejection is hereby withdrawn in favor of the new rejection found below.

Claim Rejections - 35 USC § 112

- 2. Claims 22-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 22 is indefinite. Claim 22 depends from a claim that was cancelled, thus the claim is indefinite. This claim will be interpreted that it will depend off the independent claim 13.
- 4. Claims 23 and 24 are rejected as indefinite since they depend off claim 22.

35 USC 112 6th paragraph

- 5. The applicant has invoked the means for clause of 35 USC 112 6th paragraph in claim
- 24. The structure for this claims is found paragraph 25.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/583,700 Page 3

Art Unit: 1792

7. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35

U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 13-16 rejected under 35 U.S.C. 103(a) as being unpatentable over *Richmond* et al (U.S. 5,873,518, hereafter `518).

8. Claims 13-17: `518 teaches a washing machine (fig. 1, thus a water bearing device) with magnetic valves for controlling the hot and cold water lines which is mounted the circuit board (col. 3, line 50-col. 4, line 10) with a sensor integrated with the valve components (fig. 3, part 72, col. 5, lines 15-42), with a microprocessor mounted on a circuit board (fig. 10, part 100, which is inherently a programable controller). `518 teaches that all the components are connected to an integrated circuit (fig. 10, col. 6, line 20-col. 7, line 35, where figure shows that the circuit, part 92 is one board with the components mounted there on), where the sensor has electrical connecting elements (fig. 6, part 78), and the valves have electrical connecting elements (fig. 2, parts 48 and 50). `518 does not explicitly teach that the valves are directly mounted to the circuit board. `518 teaches that the valves are electrically coupled to the circuit board (fig. 10, col. 7, lines 4-50). It would have been obvious to one of ordinary skill in the art at the time the

invention was made to have mounted the valve structure with sensor to the circuit board in apparatus `518 to have reduce the need for coupling wire and connectors.

Claims 18-20 and 22-23 rejected under 35 U.S.C. 103(a) as being unpatentable over Richmond et al (U.S. 5,873,518) as evidenced by Hengelein et al (U.S. pgpub 2004/0140677, hereafter `677).

`518 teaches all the limitations of claim 13.

9. Claims 18-20, 22 and 23: `518 teaches that all the components are connected to an integrated circuit (fig. 10, col. 6, line 20-col. 7, line 50), where the sensor has electrical connecting elements (fig. 6, part 78) and the valves have electrical connecting elements (fig. 2, parts 48 and 50). `518 does not teach how the elements are electrically coupled to the integrated circuit. The examiner takes official notices that there are many common means to connect elements to a circuit board and the board to the machine, for example, using wire connections, plugs, receiving ports for plugs, grouping elements to one port, where the circuit board itself can be plugged into contacts, as evidenced by `677 ([0021]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used different common means to connect the sensor and valves to the integrated circuit, and the circuit can be plugged into a operating position in the washing machine.

Claim 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Richmond et al (U.S. 5,873,518) as evidenced by Hengelein et al (U.S. pgpub 2004/0140677, hereafter `677) as applied to claim 22 above, further in view of in view of Faunce (U.S. 6,319,015, hereafter `015) and Roese (U.S. pgpub. 2005/0106924, hereafter `924).

`518 teaches all the limitations of claim 22.

Application/Control Number: 10/583,700

Art Unit: 1792

10. Claim 23: See claims 1 and 18-22 above. `518 teaches that the valve and the sensor has

Page 5

multiple leads (fig. 2), as seen above common electrical couplers are plugs and receiving slots

(see claims 18-22 above). `518 and the evidence `677 does not show using a spring snap fit to

locate and lock the plug in place. '015 and '924 are both electrical connectors. '015 teaches

using spring snap fit locators for the electrical contacts (fig. 1, parts 14). '924 teaches using

spring snap fits on a plug (fig. 1, parts 6 and 7, [0021]) and that there are receiving elements

located on the socket to receive the spring snap fit tabs ([0022]). It would have been obvious to

one of ordinary skill in the art at the time the invention was made to have placed a spring snap

fitting on the socket as taught by '015 and '924 and receiving ports for receiving the snap fits as

taught by '924 in the coupling plugs of apparatus '518 as evidence by '677 to have yield the

predictable result of proper placement of the plug in the socket when the spring snap fit falls

within the receiving port.

Response to Arguments

11. Applicant's arguments filed December 29, 2008 have been fully considered but they are

not persuasive.

12. Applicant is arguing that the prior art does not teach that the valves and the sensors are

directly mounted to the circuit board. This is addressed in the above claim.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/583,700 Page 6

Art Unit: 1792

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to SAMUEL A. WALDBAUM whose telephone number is

(571)270-1860. The examiner can normally be reached on M-TR 6:20-3:50, F 6:30-10:30 est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Cleveland can be reached on 571-272-1418. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. A. W./

Examiner, Art Unit 1792

/FRANKIE L. STINSON/

Primary Examiner, Art Unit 1792